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 Treinish, L.A.; Christidis, Z.D.;
Computer Graphics and Applications, IEEE
 Volume 16, Issue 4, July 1996 Page(s):10 - 13
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 Earnshaw, R.;
Computer Graphics and Applications, IEEE
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 van Dam, A.; Forsberg, A.S.; Laidlaw, D.H.; LaViola, J.J., Jr.; Simpson, R.M.;
Computer Graphics and Applications, IEEE
 Volume 20, Issue 6, Nov.-Dec. 2000 Page(s):26 - 52
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Tay, V.;
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- ☐ 7. Usability study of the virtual test bed and distributed simulation
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- ☐ 8. Table of Contents
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- ☐ 9. Study and implementation on parallel processing algorithm for DEPS
Lingfeng Zhu; Yun Shao; Xiangtao Fan; Huadong Guo;
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- ☐ 11. IEEE standard for information technology - protocols for distributed interactive simulations
Information and Interaction
[IEEE Std 1278-1993](#)
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1 [Querying and web: Efficient query processing in geographic web search engines](#)



Yen-Yu Chen, Torsten Suel, Alexander Markowetz

 June 2006 **Proceedings of the 2006 ACM SIGMOD international conference on Management of data SIGMOD '06**

Publisher: ACM Press

 Full text available: [pdf\(296.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Geographic web search engines allow users to constrain and order search results in an intuitive manner by focusing a query on a particular geographic region. Geographic search technology, also called *local search*, has recently received significant interest from major search engine companies. Academic research in this area has focused primarily on techniques for extracting geographic knowledge from the web. In this paper, we study the problem of efficient query processing in scalable geogr ...

2 [Advances in spatial and image-based information systems \(ASIIS\): An open source and web based framework for geographic and multidimensional processing](#)



Joel da Silva, Valéria C. Times, Ana Carolina Salgado

 April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

 Full text available: [pdf\(126.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The development of Business Intelligence (BI) systems has been the destination of high investments made by several enterprises. The motivation is because an efficient decision support environment brings them several business world advantages, mainly if it provides integrated functionalities for the geographical and/or multidimensional processing. The intended goal is to provide users with a system capable of processing both geographic and multidimensional data in a seamless way, by abstracting t ...

Keywords: OLAP and GIS integration, geographic and multidimensional processing, geographical data warehouse (GDW)

3 [Search engine engineering: Geographically focused collaborative crawling](#)



Weizheng Gao, Hyun Chul Lee, Yingbo Miao

 May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

Publisher: ACM Press

Full text available:  pdf(243.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A collaborative crawler is a group of crawling nodes, in which each crawling node is responsible for a specific portion of the web. We study the problem of collecting geographi-cally-aware pages using collaborative crawling strategies. We first propose several collaborative crawling strategies for the geographically focused crawling, whose goal is to collect web pages about specified geographic locations, by considering features like URL address of page, content of page, extended anchor text of ...

Keywords: collaborative crawling, geographic entities, geographically focused crawling

4 Toward improved geographic information services within a digital government: report of the NSF digital government initiative geographic information systems workshop ☐

Louis Hecht, Barbara Kucera

May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**

Publisher: Digital Government Research Center

Full text available:  pdf(531.35 KB) Additional Information: [full citation](#), [abstract](#)

This material is based upon work supported in part by the National Science Foundation under Grant No. EIA-9818131. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.

5 New approaches in GIR: Geographical partition for distributed web crawling ☐



José Exposto, Joaquim Macedo, António Pina, Albano Alves, José Rufino

November 2005 **Proceedings of the 2005 workshop on Geographic information retrieval GIR '05**

Publisher: ACM Press

Full text available:  pdf(197.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper evaluates scalable distributed crawling by means of the geographical partition of the Web. The approach is based on the existence of multiple distributed crawlers each one responsible for the pages belonging to one or more previously identified geographical zones. The work considers a distributed crawler where the assignment of pages to visit is based on page content geographical scope. For the initial assignment of a page to a partition we use a simple heuristic that marks a page wit ...

Keywords: parallel crawling, web mining, web partitioning

6 Components of GIR: Detecting geographic locations from web resources ☐



Chuang Wang, Xing Xie, Lee Wang, Yansheng Lu, Wei-Ying Ma

November 2005 **Proceedings of the 2005 workshop on Geographic information retrieval GIR '05**

Publisher: ACM Press

Full text available:  pdf(508.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The rapid pervasion of the web into users' daily lives has put much importance on capturing location-specific information on the web, due to the fact that most human activities occur locally around where a user is located. This is especially true in the increasingly popular mobile and local search environments. Thus, how to correctly and effectively detect geographic locations from web resources has become a key challenge to location-based web applications. In our previous work, we proposed to e ...

Keywords: content location, dominant location, location-based web application, provider location, serving location, web location

7 ATLAS: A geographic database system data structure and language design for geographic information



Tateyuki Tsurutani, Yutaka Kasahara, Masaru Naniwada

July 1980 **ACM SIGGRAPH Computer Graphics , Proceedings of the 7th annual conference on Computer graphics and interactive techniques SIGGRAPH '80**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(410.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The design concepts and languages of a geographic information system ATLAS (Administration and Total Landuse Analysis Support system) are proposed. The database structure is designed based on the geographic information structure concepts which contain semantic structure, topological structure and location structure. For a flexible user interface, the system provides ...

Keywords: Cartography, Database, Geographic information structure, Geographic information system, Graphic language, Regional analysis, Regional planning, Thematic map

8 An investigation of geographic mapping techniques for internet hosts



Venkata N. Padmanabhan, Lakshminarayanan Subramanian

August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '01**, Volume 31 Issue 4

Publisher: ACM Press

Full text available: pdf(319.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we ask whether it is possible to build an IP address to geographic location mapping service for Internet hosts. Such a service would enable a large and interesting class of location-aware applications. This is a challenging problem because an IP address does not inherently contain an indication of location. We present and evaluate three distinct techniques, collectively referred to as *IP2Geo*, for determining the geographic location of Internet hosts. The first technique, ...

9 Educational aspects of digital libraries: How geography professors select materials for classroom lectures: implications for the design of digital libraries



Christine L. Borgman, Gregory H. Leazer, Anne Gilliland-Swetland, Kelli Millwood, Leslie Champeny, Jason Finley, Laura J. Smart

June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries**


Publisher: ACM Press

Full text available: pdf(231.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A goal of the Alexandria Digital Earth Prototype (ADEPT) project is to make primary resources in geography useful for undergraduate instruction in ways that will promote inquiry learning. The ADEPT education and evaluation team interviewed professors about their use of geography information as they prepare for class lectures, as compared to their research activities. We found that professors desired the ability to search by concept (erosion, continental drift, etc) as well as geographic location ...

Keywords: digital libraries, digital library design, educational aspects of digital libraries, geography, information seeking behavior, user analysis

10 Reports from related meetings: Discovering geographic knowledge in data rich environments: a report on a specialist meeting ☐

 Harvey J. Miller, Jiawei Han

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(320.50 KB\)](#) Additional Information: [full citation](#), [abstract](#)

On 18--20 March 1999, a Specialist Meeting on "Discovering geographic knowledge in data-rich environments" was convened under the auspices of the Varenus Project of the National Center for Geographic Information and Analysis (NCGIA). This, workshop brought together a diverse group of researchers and practitioners with interests in developing and applying new techniques for exploring large and diverse geographic datasets. The interaction prior to, during and after the three-day workshop resulted ...

Keywords: geographic data mining, geographic information systems, geographic research, spatio-temporal data mining

11 Geographic Data Modeling: Requirements and research issues in geographic data modeling ☐

 Anders Friis-Christensen, Nectaria Tryfona, Christian S. Jensen

November 2001 **Proceedings of the 9th ACM international symposium on Advances in geographic information systems**


Publisher: ACM Press

Full text available:  [pdf\(1.18 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is well-documented in the literature that geographic data have special characteristics that make the use of extensions to standard modeling languages and techniques, such as the Unified Modeling Language, attractive. Based on a real-world application from the Danish National Survey and Cadastre, this paper presents requirements to geographic data modeling notations. Existing notations are then evaluated against the requirements, and a case study is carried out. The result is an identification ...

Keywords: GIS, conceptual data modeling, geographic data, requirements analysis

12 Geographic Data Processing ☐

 George Nagy, Sharad Wagle

June 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(4.20 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 Specifying analysis patterns for geographic databases on the basis of a conceptual framework ☐

 Jugurta Lisboa Filho, Cirano Iochpe

November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available:  [pdf\(117.23 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: analysis pattern, conceptual design, geographic databases

14 Ontology-driven geographic information systems



Frederico T. Fonseca, Max J. Egenhofer

November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available: pdf(67.03 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: GIS architecture, interoperability, object orientation, ontology

15 A method of geographical name extraction from Japanese text for thematic



geographical search

Yasusi Kanada

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(1.28 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A text retrieval method called the thematic geographical search method has been developed and applied to a Japanese encyclopedia called the World Encyclopædia. In this method, the user specifies a search theme using free words, then obtains a sorted list of excerpts and hyperlinks to encyclopedia sentences that contain geographical names. Using this list, the user can also open maps that indicate the locations of the names. To generate an index of names for this searching, a method of ...

16 GPS-based geographic addressing, routing, and resource discovery



Tomasz Imieliński, Julio C. Navas

April 1999 **Communications of the ACM**, Volume 42 Issue 4

Publisher: ACM Press

Full text available: pdf(329.24 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#),
 html(32.72 KB) [review](#)

17 GeoCast—geographic addressing and routing



Julio C. Navas, Tomasz Imielinski

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(1.68 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Designing and integrating user interfaces of geographic database applications



Agnès Voisard

June 1994 **Proceedings of the workshop on Advanced visual interfaces**

Publisher: ACM Press

Full text available: pdf(1.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we investigate the problem of designing graphical geographic database user interfaces (GDUIs) and of integrating them into a database management system (DBMS). Geographic applications may vary widely but they all have common aspects due to the

spatial component of their data: Geographic data are not standard and they require appropriate tools for (i) editing them (i.e., display and modify) and (ii) querying them. The conceptual problems encou ...

19 Towards the design and development of a new architecture for Geographic



Information Systems

Niki Pissinou, Kia Makki, E. K. Park

December 1993 **Proceedings of the second international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(805.56 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

20 What's special about spatial?: database requirements for vehicle navigation in geographic space



Max J. Egenhofer

June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data SIGMOD '93**, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(584.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Geographic databases are becoming a popular subject for research projects. It is acknowledged that database requirements for such applications as Geographic Information Systems (GISs), computer cartography, remote-sensing image databases, and emergency routing/dispatching are distinct from those for traditional database applications; however, the specific database needs due to the properties of geographic data are frequently overlooked. Here, we describe a specific problem domain, a

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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [A traffic characterization of popular on-line games](#)

Wu-chang Feng, Francis Chang, Wu-chi Feng, Jonathan Walpole

June 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 3**Publisher:** ACM Press

Full text available: pdf(1.42 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the results of the first comprehensive analysis of a range of popular on-line, multiplayer, game servers. The results show that the traffic behavior of these servers is highly predictable and can be attributed to the fact that current game designs target the saturation of the narrowest, last-mile link. Specifically, in order to maximize the interactivity of the game itself and to provide relatively uniform experiences between players playing over different network speeds, on ...

Keywords: communication system traffic, games, measurement, network servers, networks

2 [The video game \[R\]evolution](#)

Sarah Elizabeth Burcham

November 1996 **Crossroads**, Volume 3 Issue 2**Publisher:** ACM Press

Full text available: html(30.86 KB)

Additional Information: [full citation](#), [index terms](#)**3** [Games: Extending cyberspace: location based games using cellular phones](#)

Omer Rashid, Ian Mullins, Paul Coulton, Reuben Edwards

January 2006 **Computers in Entertainment (CIE)**, Volume 4 Issue 1**Publisher:** ACM Press

Full text available: pdf(697.71 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the current market many game developers and publishers treat the cellular phone as just another platform to which they can port a console game; they ignore the exciting new possibilities cellular phones provide via their inherent ability to maintain connectivity while on the move. One possibility is to extend the virtual world of traditional video games through location-based information, which allows users to play games that incorporate knowledge of their physical location and landscape, and ...

Keywords: cellular phones, location-based games, location-sensing

4 What makes things fun to learn? heuristics for designing instructional computer



games

Thomas W. Malone

September 1980 **Proceedings of the 3rd ACM SIGSMALL symposium and the first SIGPC symposium on Small systems**

Publisher: ACM Press

Full text available: pdf(665.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, I will describe my intuitions about what makes computer games fun. More detailed descriptions of the experiments and the theory on which this paper is based are given by Malone (1980a, 1980b). My primary goal here is to provide a set of heuristics or guidelines for designers of instructional computer games. I have articulated and organized common sense principles to spark the creativity of instructional designers (see Banet, 1979, for an unstructured list of similar principle ...

5 Engaging girls with computers through software games



Cecilia M. Gorritz, Claudia Medina

January 2000 **Communications of the ACM**, Volume 43 Issue 1

Publisher: ACM Press

Full text available: pdf(626.77 KB) html(28.39 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

6 How the virtual inspires the real: Computer games and scientific visualization



Theresa-Marie Rhyne

July 2002 **Communications of the ACM**, Volume 45 Issue 7

Publisher: ACM Press

Full text available: pdf(312.06 KB) html(22.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

How should scientists approach the innovations in visualization-rendering systems increasingly derived from computer game tools, interfaces, navigation techniques, and plot lines?

7 Computers in non-school settings: implications for education



James A. Levin

July 1982 **ACM SIGCUE Outlook**, Volume 16 Issue 1

Publisher: ACM Press

Full text available: pdf(1.29 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

The development and spread of inexpensive microcomputers is posing major challenges for the current educational system, challenges based to a large extent on grassroots developments. While the potential for intensive use of computers has existed for a long time, the high price of computers and the continuing expense of maintaining communication with a remote central facility proved prohibitive in many cases, and almost always required some benefactor to support the project.

8 Reception and posters: A geographic redirection service for on-line games



Chris Chambers, Wu-chi Feng, Wu-chang Feng, Debanjan Saha

November 2003 **Proceedings of the eleventh ACM international conference on**

Multimedia**Publisher:** ACM PressFull text available:  [pdf\(370.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

For many on-line games, user experience is impacted significantly by network latency. As on-line games and on-line game servers proliferate, the ability to discover and connect to nearby servers is essential for maintaining user satisfaction. In this paper, we present a redirection service for on-line games based on the geographic location of players relative to servers. As our results show, the service better meets client demand, saving each client and the Internet as a whole, thousands of mile ...

9 Wireless game and game story: Contextual information access and storytelling in mixed reality using hypermedia



Luis Romero, JORGE SANTIAGO, NUNO CORREIA

July 2004 **Computers in Entertainment (CIE)**, Volume 2 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(480.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article describes gaming and storytelling activities in a mixed environment that integrates the real and virtual worlds, uses an augmented reality paradigm, and is supported by a structuring and presentation framework for use in context-aware mixed-reality applications. The basis of the framework is a generic hypermedia model that can handle different media elements, objects, and relations between spaces and locations in physical and virtual worlds. A main component of the model deals wi ...

Keywords: hypermedia interfaces, hypermedia model, mixed and augmented reality, mobile gaming and storytelling

10 Real-time interactive graphics in computer gaming



Scott S. Fisher, Glen Fraser, Amy Jo Kim

May 1998 **ACM SIGGRAPH Computer Graphics**, Volume 32 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(1.56 MB\)](#) Additional Information: [full citation](#), [index terms](#)

11 The computer as coach: As athletic paradigm for intellectual education



Ira Goldstein, Brian Carr

January 1977 **Proceedings of the 1977 annual conference****Publisher:** ACM PressFull text available:  [pdf\(510.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Over the next five years, computer games will find their way into many homes, creating a unique educational opportunity: the development of "computer coaches" for the serious intellectual skills required by some of these games. From the player's perspective, the coach will provide advice regarding strategy and tactics for better play. But, from the perspective of the coach, the request for help is an opportunity to tutor basic mathematical, scientific or other kinds of knowledge ...

12 Games: Agents-based modeling for a peer-to-peer MMOG architecture



Abdenmour El Rhalibi, Madjid Merabti

April 2005 **Computers in Entertainment (CIE)**, Volume 3 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(549.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Massively Multiplayer Online Games (MMOGs) are becoming a very important part of computer entertainment business. With the recent development of broadband technologies, the increase in the number of players is putting a strong pressure on this type of application. Commonly used clients/server systems don't cope well with scalability, limiting the number of players who can interact with each other, are not robust enough, and might be subject to bottlenecks due to their centralized infrastructure. ...

Keywords: JXTA, MMOG, distributed applications, network communications, network topology, online gaming, peerto-peer architecture, protocol


13 Section 05: home and neighbourhood: Of maps and guidebooks: designing geographical technologies



Barry Brown, Mark Perry

June 2002 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Publisher: ACM Press

Full text available:  [pdf\(56.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Researchers and designers are increasingly making use of geographic location in designing context-aware computer systems. However, there has been little conceptual work on how geography interacts with technology. In this paper, we use the concepts of "place and space" to explore how technologies are used geographically and how they impact on, and are used in, the physical environment. Fieldwork with tourists using maps and guidebooks shows how technology brings space and place together in activi ...

Keywords: context-aware computing, ethnography, geography, place and space, user studies

14 Visualizing geospatial data



Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(14.01 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include: • Rudimentary: minimal data sharing between the GIS and Vis systems • Operational: consistency of geospatial data • Functional: transparent communication between the GIS and Vis systems • Merged: one comprehensive toolkit environmentW ...

15 Wireless game and game story: "Fancy a Schmink?": a novel networked game in a cafe



Josephine Reid, Jenny Hyams, Kate Shaw, Mathew Lipson

July 2004 **Computers in Entertainment (CIE)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(624.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this article we describe a week-long public field trial called Schminky. On the basis of findings from the trial we consider the design implications for spontaneous, networked, sound-based games. The venue for the trial was a cafe in a digital media center. The article reflects on the role of place and the notion of embedded histories.

Keywords: entertainment, hand-held devices, mobile and wireless games

16 Computer graphics education directory



Steve Cunningham

November 1985 **ACM SIGGRAPH Computer Graphics**, Volume 19 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.89 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This is SIGGRAPH's second directory of college-level computer graphics education, covering courses in computer graphics in a broad spectrum of disciplines. This directory is a single source of computer graphics course information. If you are a student entering college or considering a change of studies, a professional considering broadening your skills, or an educator seeking broader contacts in graphics among your peers, this directory is designed for you. The directory was compiled from the fir ...

17 Geographic Data Processing



George Nagy, Sharad Wagle

June 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 2

Publisher: ACM Press

Full text available: [pdf\(4.20 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Games: Peekaboom: a game for locating objects in images



Luis von Ahn, Ruoran Liu, Manuel Blum

April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**

Publisher: ACM Press

Full text available: [pdf\(657.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce Peekaboom, an entertaining web-based game that can help computers locate objects in images. People play the game because of its entertainment value, and as a side effect of them playing, we collect valuable image metadata, such as which pixels belong to which object in the image. The collected data could be applied towards constructing more accurate computer vision algorithms, which require massive amounts of training and testing data not currently available. Peekaboom has been play ...

Keywords: computer vision, distributed knowledge acquisition, object recognition, object segmentation, web-based games

19 Game strategy and collusion in an oligopolistic market



Joel Shechter

August 1969 **Proceedings of the 1969 24th national conference**

Publisher: ACM Press

Full text available: [pdf\(655.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper provides a possible solution to the following problem: Can basic game strategy be applied in an oligopolistic market, where two individuals or firms, in collusion, divide a market area in which they have historically been competing? The competitors are brought together by the desire to eliminate ruinous price competition and by the need to determine a price leader as an integral part of the process of market division. A possible solution to this problem is ...

20 Theories: Towards digital narrative for children: from education to entertainment, a historical perspective



Krystina Madej

October 2003 **Computers in Entertainment (CIE)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: [pdf\(283.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Narrative is central to human experience, and a key way that experience is made meaningful. Education and entertainment have both played a significant part in the evolution of children's narrative. In its liminal state during the 1500s, children's print narrative was primarily educational. Locke's theories of education in the 1700s encouraged "children playing and doing as children," and narrative slowly moved towards being entertaining as well as educational. Not until the 1800s, with the stori ...

Keywords: History of children's literature, digital narrative, education, education, entertainment, and meaning in children's literature, entertainment

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Simulation Practice and Theory, Volume 9, Issues 1-2, 15 October 2001, Pages 37-54
 Jasna Kuljis and Ray J. Paul
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Building and Environment, Volume 36, Issue 6, July 2001, Pages 673-680
 Michael Donn
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Advances in Human Performance and Cognitive Engineering Research, Volume 1, 2001, Pages 293-317
 Clint A. Bowers and Florian Jentsch
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Simulation Practice and Theory, Volume 3, Issue 2, 15 September 1995, Pages 63-79
 D. A. B. Fogg
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 Mohammad M. AminiRobert E. Schooley
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A. B. McBratney, M. L. Mendonça Santos and B. Minasny

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Ecological Modelling, Volume 124, Issues 2-3, 13 December 1999, Pages 121-130
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 D. S. Wilks
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 Deborah Shmueli
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Transportation Research Part A: Policy and Practice, Volume 31, Issue 3, May 1997, Pages 181-203
 Asad J. KhattakAndré De Palma
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13. ☐ **Fire simulations in the Everglades Landscape using parallel programming • ARTICLE**
Ecological Modelling, Volume 93, Issues 1-3, 16 December 1996, Pages 113-124
 Yegang Wu, Fred H. Sklar, Kishore Gopu and Ken Rutchey
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Ecological Modelling, Volume 89, Issues 1-3, August 1996, Pages 231-258

Steven D. Culberson and Raul H. Piedrahita

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Akinaru Iino and Akira Hoyano

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European Management Journal, Volume 14, Issue 1, February 1996, Pages 1-20

Spyros Makridakis

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17. ☐ **The forthcoming information revolution : Its impact on society and firms • ARTICLE**

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Spyros Makridakis

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18. ☐ **Object-oriented modeling and GIS integration in a decision support system for the management of eastern hemlock looper in Newfoundland • ARTICLE**

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J. M. Power and H. Saarenmaa

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PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050187741 A1

TITLE: Development tool for defining attributes within a multi-dimensional space

PUBLICATION-DATE: August 25, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Gilbert, Michael Travis

Snohomish

WA

US

US-CL-CURRENT: 703/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 2. Document ID: US 20050114102 A1

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File: PGPB

May 26, 2005

PGPUB-DOCUMENT-NUMBER: 20050114102

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050114102 A1

TITLE: Weather profiles

PUBLICATION-DATE: May 26, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Gilbert, Michael Travis

Snohomish

WA

US

Wang, Niniane

Santa Clara

CA

US

US-CL-CURRENT: 703/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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Aug 25, 2005

PGPUB-DOCUMENT-NUMBER: 20050187741

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050187741 A1

TITLE: Development tool for defining attributes within a multi-dimensional space

PUBLICATION-DATE: August 25, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Gilbert, Michael Travis

Snohomish

WA

US

US-CL-CURRENT: 703/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Drawn De
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☐ 2. Document ID: US 20050114102 A1

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File: PGPB

May 26, 2005

PGPUB-DOCUMENT-NUMBER: 20050114102

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050114102 A1

TITLE: Weather profiles

PUBLICATION-DATE: May 26, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Gilbert, Michael Travis

Snohomish

WA

US

Wang, Niniane

Santa Clara

CA

US

US-CL-CURRENT: 703/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Drawn De
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☐ 3. Document ID: US 5412901 A

L4: Entry 3 of 6

File: USPT

May 9, 1995

US-PAT-NO: 5412901

DOCUMENT-IDENTIFIER: US 5412901 A

**** See image for Certificate of Correction ****

TITLE: Flexible body fishing lure

DATE-ISSUED: May 9, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Matinez; <u>Gilbert</u> S.	Toledo	OH	43612	

US-CL-CURRENT: 43/42.22; 43/42.19, 43/42.36

Full	Title	Citation	Front	Review	Classification	Date	Reference	<u>Sequences</u>	<u>Attachments</u>	Claims	KMC	Drawings
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☐ 4. Document ID: US 5112692 A

L4: Entry 4 of 6

File: USPT

May 12, 1992

US-PAT-NO: 5112692

DOCUMENT-IDENTIFIER: US 5112692 A

**** See image for Certificate of Correction ****

TITLE: Polyvinylidene fluoride composite and method

DATE-ISSUED: May 12, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Strassel; Albert	Oullins			FR
Duperray; <u>Gilbert</u>	Civrieux d'Azergues par Lauzanne			FR

US-CL-CURRENT: 428/421; 156/244.11, 428/424.6, 428/476.3, 428/476.9

Full	Title	Citation	Front	Review	Classification	Date	Reference	<u>Sequences</u>	<u>Attachments</u>	Claims	KMC	Drawings
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☐ 5. Document ID: US 4869014 A

L4: Entry 5 of 6

File: USPT

Sep 26, 1989

US-PAT-NO: 4869014

DOCUMENT-IDENTIFIER: US 4869014 A

TITLE: Adjustable bait-receiving fishing lure

DATE-ISSUED: September 26, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Francklyn; <u>Gilbert</u> W.	Poulsbo	WA		

US-CL-CURRENT: 43/44.6; 43/42.47, 43/42.49

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 6. Document ID: US 4791751 A

L4: Entry 6 of 6

File: USPT

Dec 20, 1988

US-PAT-NO: 4791751

DOCUMENT-IDENTIFIER: US 4791751 A

TITLE: Adjustable bait-receiving fishing lure

DATE-ISSUED: December 20, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Francklyn; <u>Gilbert</u> W.	Poulsbo	WA	98370	

US-CL-CURRENT: 43/44.6; 43/42.47, 43/42.49

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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May 11, 2006

PGPUB-DOCUMENT-NUMBER: 20060100784

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060100784 A1

TITLE: DYNAMIC WEATHER SIMULATION

PUBLICATION-DATE: May 11, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wang; Niniane	Santa Clara	CA	US

US-CL-CURRENT: 702/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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File: PGPB

May 4, 2006

PGPUB-DOCUMENT-NUMBER: 20060095497

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060095497 A1

TITLE: Global network computers

PUBLICATION-DATE: May 4, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ellis; Frampton E. III	Arlington	VA	US

US-CL-CURRENT: 709/201

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 20050187741 A1

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File: PGPB

Aug 25, 2005

PGPUB-DOCUMENT-NUMBER: 20050187741
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050187741 A1

TITLE: Development tool for defining attributes within a multi-dimensional space

PUBLICATION-DATE: August 25, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gilbert, Michael Travis	Snohomish	WA	US

US-CL-CURRENT: 703/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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File: PGPB

Aug 18, 2005

PGPUB-DOCUMENT-NUMBER: 20050180095
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050180095 A1

TITLE: Global network computers

PUBLICATION-DATE: August 18, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ellis, Frampton E.	Jasper	FL	US

US-CL-CURRENT: 361/600

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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File: PGPB

May 26, 2005

PGPUB-DOCUMENT-NUMBER: 20050114102
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050114102 A1

TITLE: Weather profiles

PUBLICATION-DATE: May 26, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gilbert, Michael Travis	Snohomish	WA	US
Wang, Niniane	Santa Clara	CA	US

US-CL-CURRENT: 703/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCC	Draw D
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File: PGPB

Oct 28, 2004

PGPUB-DOCUMENT-NUMBER: 20040215931
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040215931 A1

TITLE: Global network computers

PUBLICATION-DATE: October 28, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ellis, Frampton E.	Jasper	FL	US

US-CL-CURRENT: 712/36

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCC	Draw D
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☐ 7. Document ID: US 20020087886 A1

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File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020087886
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020087886 A1

TITLE: Global network computers

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ellis, Frampton E.	Arlington	VA	US

US-CL-CURRENT: 726/11; 709/223

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCC	Draw D
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May 16, 2002

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PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020059392 A1

TITLE: Global network computers

PUBLICATION-DATE: May 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ellis, Frampton E. III	Arlington	VA	US

US-CL-CURRENT: 709/208

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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L6: Entry 9 of 11

File: USPT

Jul 18, 2006

US-PAT-NO: 7077749
DOCUMENT-IDENTIFIER: US 7077749 B1

TITLE: Dynamic weather simulation

DATE-ISSUED: July 18, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; Niniane	Santa Clara	CA		US

US-CL-CURRENT: 463/32; 463/30, 463/31

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 10. Document ID: US 7035906 B1

L6: Entry 10 of 11

File: USPT

Apr 25, 2006

US-PAT-NO: 7035906
DOCUMENT-IDENTIFIER: US 7035906 B1

TITLE: Global network computers

DATE-ISSUED: April 25, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ellis, III; Frampton E.	Arlington	VA	22206-1331	US

US-CL-CURRENT: [709/208](#); [709/225](#), [709/229](#), [712/31](#), [712/32](#), [712/33](#), [712/35](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw. D
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☐ 11. Document ID: US 7024449 B1

L6: Entry 11 of 11

File: USPT

Apr 4, 2006

US-PAT-NO: 7024449

DOCUMENT-IDENTIFIER: US 7024449 B1

TITLE: Global network computers

DATE-ISSUED: April 4, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ellis, III; Frampton E.	Arlington	VA	22206-1331	US

US-CL-CURRENT: [709/201](#); [709/209](#), [712/32](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw. D
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